

StarDental® Instruments  
**Autochuck Turbine Replacement Kit**  
 Instruction Manual

Caution: Federal law restricts this device to sale by or on the order of a dentist.

Non-Sterile

**DentalEZ**  
 INTEGRATED SOLUTIONS

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**DO NOT USE FOR ORAL SURGERY**

**BEFORE INSTALLING THE TURBINE, CAREFULLY READ AND FOLLOW ALL OF THESE INSTRUCTIONS. SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE AND OBSERVE ALL WARNINGS AND CAUTIONS.**

**Indications For Use**

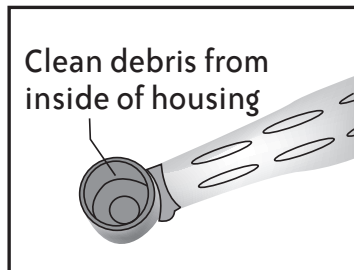
High speed dental handpieces are used intraorally by trained dental professionals for drilling and preparation of dental caries for restoration, such as fillings. The Autochuck Turbine is a component of the high speed handpiece that enables the handpiece to perform the procedures required.



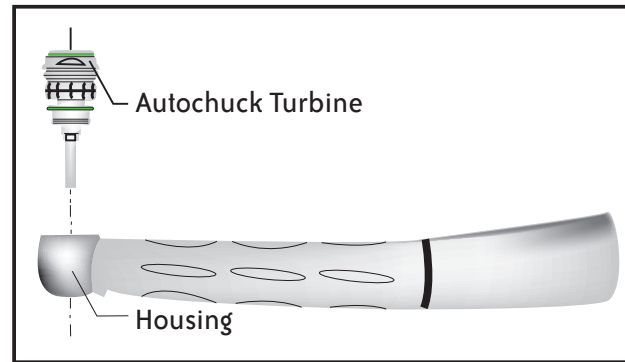
**Turbine Installation**

**Note:** Replace the turbine when the handpiece fails to achieve full speed and/or increases sharply in noise level. The replacement cartridge is available from your dealer and is easily replaced in the office. To order a replacement, see 'Replacement Parts' section for **StarDental** part numbers.

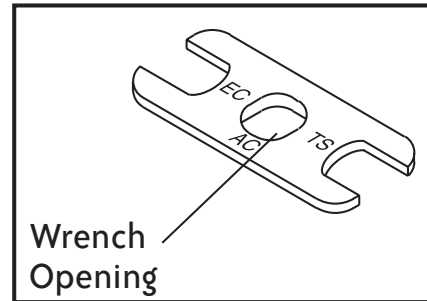
- Using wrench supplied, remove old end cap. Push turbine out using a shipping pin or small bur.
- Inspect housing before cleaning. Remove any obvious debris to prevent damage and to insure performance of the new turbine. Also, remove o-ring(s) from housing at bur opening, if present.
- Connect handpiece and run air through turbine housing without turbine installed for 5 seconds.
- Clean housing thoroughly with a cotton swab and isopropyl alcohol. Dry with syringe air.



- Place new turbine assembly into housing and gently insert until fully seated.



- Position and engage threads of end cap into the housing by hand until snug.
- Tighten end cap with the combination end cap wrench, employing the wrench opening marked AC as shown. Position wrench with marked side facing end cap for best wrench control.



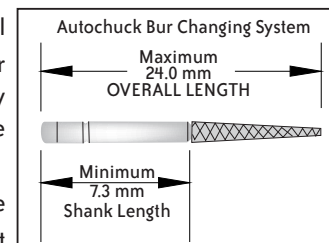
**Autochuck Operation**

**CAUTION:** Use burs that have an overall length of less than 24 mm and shank length of at least 7.3 mm.

Use standard length concentric diamond and carbide burs with .0628" nominal diameter friction grip shanks designed for high speed handpieces. Every **StarDental** Diamond Bur meets specifications below for recommended lengths. Contact your dealer for a complete list of **StarDental** Diamond Burs. **StarDental** autochuck turbines have the following bur requirements:

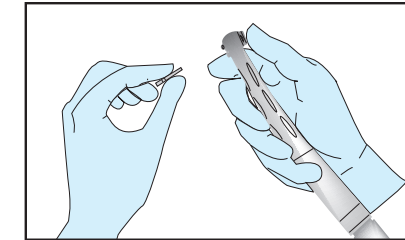
Use only burs with hardened, tempered steel shanks or carbide shanks. Every **StarDental** Bur maintains required hardness. Before use, verify concentric rotation by operating handpiece outside the oral cavity in a safe place.

**Note:** Do not use burs that produce excessive noise or do not run concentrically. Do not use burs that are modified, eccentrically designed, or have bent or 'soft' (non-heat treated) shanks.



**Autochuck Bur Changing System**

- Insert bur into autochuck until resistance is felt.
- Press autochuck end cap button and continue to feed-in bur until it stops.
- Release end cap button. Now, apply light inward force to the dental bur. This will help set the chucking mechanism for initial start up. (Always tug on bur after it has been installed to confirm that it is secured.)
- To remove** bur, grasp handpiece firmly so your thumb touches the end cap and push.
- Pull bur straight out.
- Release endcap.



**CAUTION:** Never press the autochuck end cap button or rest the end cap against any part of the oral anatomy during handpiece operation. Pressing the end cap while a bur is rotating can activate the chuck mechanism and result in end cap heat-up and/or loss of bur retention.

**SAFETY INSTRUCTIONS**

- Always tug on bur after chuck is loaded to confirm that the bur is secured.
- Before use, verify concentric rotation by operating the handpiece outside the oral cavity in a safe place. Do not use burs that do not run concentrically or produce excessive noise.
- Never operate handpiece without a bur installed.
- Always use burs with an overall length of less than 24 mm. Shank length must be at least 7.3 mm.
- Use only recommended burs to prevent damage to autochuck and in some cases to prevent burs from improper or incorrect placement. An improperly clamped bur may dislodge during use, causing injury to you or your patient. A sudden, high-pitched sound or increased vibration while handpiece is operating alerts the operator to the possibility that the chuck is not clamped sufficiently to retain the bur or a bent bur is inserted.
- When using the autochuck, never press end cap while bur is rotating.
- For maximum life, operate handpiece at correct psi.

**WARNING**

Always insert a bur the full length of the chuck. If you attempt to extend it from the chuck, the bur may dislodge during use and cause injury to you or your patient.

**CAUTION**

Replace the turbine when the handpiece fails to achieve full speed and/or increases sharply in noise level. This is an indication of a failing turbine. A failing turbine will reduce the efficiency of the handpiece and may result in end cap heat up. See "Turbine Installation".

